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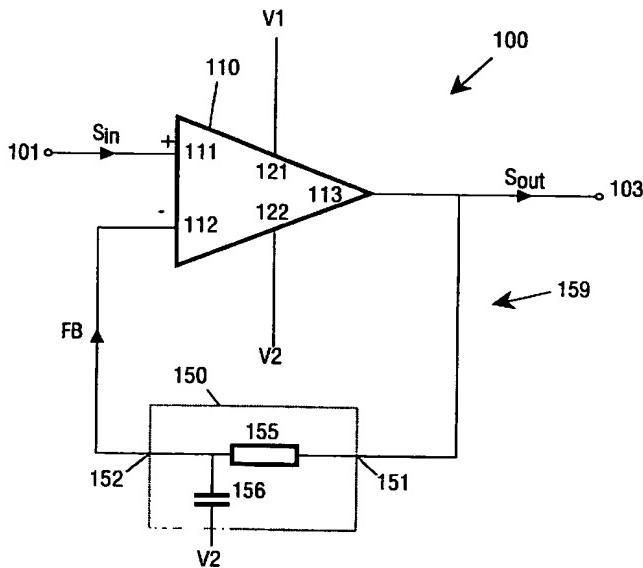
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## Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

[Continued on next page]

(54) Title: PWM GENERATOR



(57) Abstract: A PWM generator (100; 200; 300; 400) is described, which does not require a separate saw-tooth generator and a separate comparator for generating a modulated pulsed signal. According to the invention, the input signal ( $S_{in}$ ) is supplied to one input terminal (111) of a comparator (110), which receives at its other terminal (112) a feedback signal which is derived from the output signal ( $S_{out}$ ) via an integrator device (150), in such a way that the circuit is self-oscillating. The feedback signal is a sloping signal. The comparator switches its output when the feedback signal crosses the level of the input signal, which in turn causes the feedback signal to invert its slope. Thus, the feedback signal in effect provides a saw-tooth signal without being generated by a separate saw-tooth generator.

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## INTERNATIONAL SEARCH REPORT

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 457 435 A (HOFFMAN JOHN P) 10 October 1995 (1995-10-10) figure 2	1-6
X	DE 197 33 382 A (FAHRZEUGKLIMAREGELUNG GMBH) 4 February 1999 (1999-02-04) column 1, line 29 – column 1, line 60; figure 1	1-6
X	PATENT ABSTRACTS OF JAPAN vol. 0062, no. 05 (E-136), 16 October 1982 (1982-10-16) & JP 57 111121 A (MICHIHIKO NAGAO), 10 July 1982 (1982-07-10) abstract	1-6

 Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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Location No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5457435	A 10-10-1995	NONE		
DE 19733382	A 04-02-1999	DE	19733382 A1	04-02-1999
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